more healthy occupation. The Y.M.C.A. have such a colony to their credit at Kinson. It is intended to supplement the sanatorium and the dispensary, but not to replace them. Unfortunately, it is necessary to add that, because some people, who seem to decline to understand that the success of all these institutions depends upon their being co-ordinated into one harmonious scheme for the purpose of meeting the disease at every point, have recently been talking and writing about farm colonies as if they were to replace all else. It is hardly necessary to point out the folly of sending patients who are unfit for work to a colony, or of putting infectious patients to any occupation concerned with the production of food. A few years ago some held that all we wanted was sanatoriums; and now, having proved themselves wrong, they proceed to say the same thing about farm colonies. Having watched these heresies for twelve years, may I prophesy that soon they will be proclaiming open-air schools to be the one and only solution.

At the Red Triangle Farm Colony at Kinson, in Dorset, conducted in association with the Ministry of Pensions, discharged soldiers, whose disablement is due to tuberculosis but in whom the disease is arrested, are receiving an all-round training in agriculture. This training is free of charge to the men, who are, indeed, remunerated for the work they do on a simple co-operative system. The aim of the Y.M.C.A. is to run this farm, not in order to make a profit, but rather to give every man a thorough experience of farming, so that on leaving he may earn good wages for himself. A reasonable return is received for the produce of the farm. Money could scarcely be better expended; because it will enable these patients very soon to earn their own living by an open-air life on the land.

THE CO-ORDINATED SYSTEM.

All the institutions mentioned to-night must make the wide co-ordinated scheme, recommended by the Department Committee on Tuberculosis. The buildings portrayed in the film are in Edinburgh, in which city Sir Robert Philip created, in 1887, the first tuberculosis dispensary in the world. Thence the movement has spread to many lands, and now in London there are eleven tuberculosis dispensaries founded

from the Central Fund for the Promotion of the Dispensary System. Behind every element in this scheme there is the most powerful factor in the practice of medicine—the *vis medicatrix naturæ*—the healing force of nature, the recuperative power of mind and body. In ancient days by virtue of the recognition of that element in the sunlit cloisters of the great open temples of Æsculapius, suffering humanity found health and peace ; and in the fuller realisation of that vast energy lies the hope of modern medicine. To-night I appeal to the Y.M.C.A. to help to realise that dream. Let there be no illusions as to the giants in the path of those of you who set out on this crusade. You will meet with apathy and indifference; you will encounter the baseless fear of an inherited destiny which paralyses all effort on the part of many patients; and above all you will have to win that support in high places which will afford the services of experts for all sections of the community. Ay, and you will soon realise that there is one wide influence which may baffle our progress and undermine the basis of all advance. The real tragedy of life is not a disease but the perverse human Will omnipresent.

I have detained you at some length; but for the purpose not only of stating an argument but of showing you on what it is based, and if you of the Y.M.CA. take up this policy it will be because you are convinced of its merits and believe in your soul and conscience that it is right.

THE FUTURE.

Ladies and gentlemen, it is all part of an old story which we should have learned far back in the history of this Earth—that co-operative effort is based on individual conviction, and that the destiny and prosperity of a nation kindle on the hearths of her people. The scheme here outlined is one not of force or constraint, but of education and persuasion. At every stage the individual patient is encouraged to co-operate. His mind is brought to bear, and his own will is rallied to assist in the eradication of this mortal foe. Recollect, while in this Kingdom every year 50,000 die of a preventible disease, we are still in the Valley of the Shadow of Death. But together, we are going

forward, 'on to the bounds of the Waste, on to the City of God.' And to what end? That when our generation has passed, when peoples, customs, comedies, tragedies and tears are sinking deeper and deeper into the eternal sea, a race that is yet unborn may for a time remember that in this century one sorrow was lifted from the lives of men.

Suggested Plan for a Popular Lecture on Consumption.

Mortality in the United Kingdom.

50,000 die of consumption, 20,000 of other forms of tuberculosis (bones, glands, and joints), 150,000 disabled, and 500,000 infected people.

Where the Death-rate is Highest.

In slums four times greater than in general population. Bad air and poverty predispose to the disease. There is no inherited predisposition.

The Tuberculous Nest. Infection :

400 billions of tubercle bacilli may be discharged in sputum every 24 hours.

Also in droplets of secretion expelled from mouth during act of coughing.

Tubercle bacillus, a minute invisible germ. 24,000 placed end to end measure an inch in length, and 400 millions could lie side by side on surface of postage stamp.

Means of Infection from Human Sources ;

Inhaled in the air. Swallowed in food.

Prevention : *Sunlight destroys germ in three minutes.*

Expectorate into sputum flask with 5% carbolic acid, which kills germ in 30 seconds.

Sleep alone and in separate room.

Avoid any share in preparation of food. Avoid kissing.

Infection from Bovine Sources :

Tuberculous milk kills 10,000 children in United Kingdom every year.

1 in every 11 churns of milk in London contains living tubercle bacilli.

Prevention :

By tuberculin test and segregation, tuberculosis can be exterminated from herds of cattle. What has been done in America.

The Tuberculosis Dispensary :

Is the collecting centre and clearing house for all tuberculous patients. In the early stages patients are cured at these dispensaries without giving up their work. Dispensary distributes other cases to its auxiliaries, and makes the homes healthier.

The March Past :

When one case of consumption has occurred in a family all the other members should be examined by an expert. Consumption, when diagnosed in time, is one of the most curable diseases known to medicine. March Past reveals cases in all stages of the disease ; for these suitable provision is made.

Hospital for Advanced Cases :

Great need for these in industrial centres to treat these patients apart from the Poor Law. Segregation alone will not exterminate consumption. Why ?

Public Health Authorities :

Disinfect homes. All cases being notified.

The Open-Air School :

Great importance of this. Relation to the Dispensary.

The Sanatorium :

The Open-Air Cure. Only suitable cases should be sent. Why ?

Sanatoria alone will not eradicate disease. Why ?

Relation to Dispensary. Time patients should be kept.

The Farm Colony :

Its relation to Sanatorium. Only suitable cases should be sent. Why ?

The Co-Ordinated Scheme.

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